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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/458,109	12/08/1999	Maximino Vasquez	CT-317	8454

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EXAMINER

ONUAKU, CHRISTOPHER O

ART UNIT

PAPER NUMBER

2615

DATE MAILED: 06/04/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 09/458,109	Applicant(s) Vasquez
Examiner Christopher O. Onuaku	Art Unit 2615

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 1-16, 18-21, and 24 is/are allowed.
- 6) Claim(s) 17, 22, 23, and 25 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

*See the attached detailed Office action for a list of the certified copies not received.

- 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).
a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s). 3&6
- 4) Interview Summary (PTO-413) Paper No(s). _____
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____

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DETAILED ACTION

Claim Rejections - 35 U.S.C. § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for the purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 17,22,23&25 are rejected under 35 U.S.C. 102(b) as being anticipated by Okada et al (US 6,549,722).

Regarding claim 17, Yamauchi et al disclose a multimedia optical disc which stores multimedia data, including an apparatus and a method for reproducing the multimedia optical disc, the method comprising:

a) inserting a key into the subpicture data to indicate that the data is subpicture information and not the graphics data (see Fig.7, col.10, lines 4-22), here, examiner reads “key” as the means for identifying the sub-picture information; the data field of the sub-picture pack stores sub-picture data (image data), the stream ID is set to “1011 1101”, wherein the higher three bits of the sub-picture ID indicate the data is the sub-picture data sub-picture information), and

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the lower five bits indicate a channel. Note the examiner reads the channel portion of the image data as the graphics information;

b) writing the subpicture data to a primary surface, the primary surface also receiving the graphics data (see Fig.7; col.10, lines 4-22), here, the data field of the sub-picture pack stores the sub-picture data, and the sub-picture data includes the sub-picture information and the graphics information, as discussed above.

Regarding claim 22, Yamauchi further discloses:

a) a memory (see Fig.1) having a primary surface and a video surface (see Fig.2-7 which show the structure and the enlarged structure of the DVD, including the management portion and the portions where the audio/video information are written and the portions where the sub-picture data, which includes the sub-picture information and the graphics or channel information are written);

b) a key inserter (see col.10, lines 4-22), here Yamauchi shows the sub-picture data, is identifiable to facilitate the searching of the identified data is identified;

c) a subpicture data writer coupled to the key inserter and coupled to the primary surface (see col.10, lines 4-22) the discussions in this claim and the claims 17&22, show that the information recorded in the DVD is identified in order to facilitate the searching and retrieval of such information. Inherently in Yamauchi the subpicture data writer is coupled to the key

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inserter and to the primary surface in order to record the subpicture data and the subpicture id on the surface of the DVD recording means.

Regarding claim 23, the claimed limitations of claim 23 are accommodated in the discussions of claim 22 above.

Regarding claim 25, the claimed limitations of claim 25 are accommodated in the discussions of claim 17 above.

Allowable Subject Matter

3. Claims 1-16,18-21&24 are allowable over the prior art of record.
4. The following is a statement of reasons for the indication of allowable subject matter: .

Regarding claim 1, the invention relates to the rendering of a DVD-video subpicture on a computer system without loss of color resolution.

The closest reference Yamauchi et al (US 6,088,507) disclose a multimedia optical disc which stores multimedia data, including an apparatus and a method for reproducing the multimedia optical disc.

However, Yamauchi et al fail to explicitly disclose a method for rendering DVD subpicture data on a computer system having graphics data without a loss of subpicture resolution, where the method includes converting the subpicture data to an RGB value and an

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alpha value and blending the RGB value with DVD video data according to the alpha value if the data is subpicture data, and combining the graphics data with the DVD video data if the data is graphics data.

Regarding claim 18, the invention relates to the rendering of a DVD-video subpicture on a computer system without loss of color resolution.

The closest reference Yamauchi et al (US 6,088,507) disclose a multimedia optical disc which stores multimedia data, including an apparatus and a method for reproducing the multimedia optical disc.

However, Yamauchi et al fail to explicitly disclose a DVD data renderer where the DVD data DVD render includes a subpicture detector coupled to the subpicture key select block, an index select block coupled to the primary surface reader, a subpicture palette coupled to the index select block, an alpha select block coupled to the primary surface reader, a multiplexor having a plurality of inputs and an output, one of the inputs coupled to the alpha select block and another of the inputs coupled to the subpicture detector, a video surface reader coupled to the video surface, and an alpha blender coupled to the subpicture palette, the multiplexor, and the video surface reader.

Regarding claim 24, the invention relates to the rendering of a DVD-video subpicture on a computer system without loss of color resolution.

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The closest reference Yamauchi et al (US 6,088,507) disclose a multimedia optical disc which stores multimedia data, including an apparatus and a method for reproducing the multimedia optical disc.

However, Yamauchi et al fail to explicitly disclose a program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a method for rendering DVD subpicture data on a computer having graphics data without a loss of subpicture resolution, where the method includes converting the subpicture data to an RGB value and an alpha value and blending the RGB value with DVD video data according to the alpha value if the data is subpicture data, and combining the graphics data with the DVD video data if the data is graphics data.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Okada et al (US 6,549,722) teach apparatus, method and recording medium implementing audio gap information for an audio presentation discontinuous period.

Fujimoto (US 5,912,710) teaches a system and method for controlling a display of mixed images of the graphics data and motion picture data on a television monitor with a canceling of the difference between the aspect ratios.

Watson et al (US 6,466,226) teach a method and apparatus for pixel filtering using commonly shared filter resource between an overlay engine in a computer system.

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6.. Any inquiry concerning this communication or earlier communications from this examiner should be directed to Christopher Onuaku whose telephone number is (703) 308-7555. The examiner can normally be reached on Tuesday to Thursday from 7:30 am to 5:00 pm. The examiner can also be reached on alternate Monday.

If attempts to reach the examiner by telephone is unsuccessful, the examiner's supervisor, Andrew B. Christensen, can be reached on (703) 308-9644.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314, (for formal communications intended for entry)

and (for informal or draft communications, please label "PROPOSED" or
"DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,
Arlington. VA., Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application should be directed to Customer Service whose telephone number is (703) 306-0377.

COO

5/30/03

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THAI TRAN
PRIMARY EXAMINER